



CHANGE FOR THE BETTER WITH ENERGY STAR

Products that earn the ENERGY STAR® prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.
www.energystar.gov

ENERGY STAR in Local and State Government – Good for Your Budget and the Environment

Local and state governments may obtain significant reductions in energy bills by changing purchasing policies to specify ENERGY STAR qualified products. The table below presents a basket of ENERGY STAR qualified products – computers and monitors, vending machines, exit signs, copiers, and traffic signals – applicable to state and local governments. These products can save you over \$1.5 million in electricity costs (based on an electricity rate of \$0.071/kWh)¹ and prevent 16,658 tons of carbon dioxide emissions over their lifetime compared to conventional products.

Simple Steps to Significant Savings Applicable to Local and State Governments				
Action	Annual Energy & Maintenance Savings	Annual Savings CO2 (Tons)	Life-Cycle Energy & Maintenance Savings	Life-Cycle Savings CO2 (Tons)
Use ENERGY STAR power management to enable low-power mode on 5,000 monitors (15" LCD) and computers	\$41,700	420	\$151,500	1,681
Replace 50 conventional vending machines with ENERGY STAR versions	\$8,800	89	\$93,400	1,247
Replace 500 incandescent exit signs with the ENERGY STAR LED type	\$25,700	119	\$208,300	1,190
Use 300 ENERGY STAR qualified and enabled copiers	\$3,000	31	\$16,000	184
Replace conventional traffic signals at 100 intersections with LED signals	\$132,100	1,236	\$1,071,100	12,356
Totals	\$211,300	1,895	\$1,540,300	16,658

(1) Figures obtained from calculators on the Purchasing & Procurement Web page; savings have been rounded to the nearest hundred for simplicity. Calculators may be downloaded (right-click) or used from the Web (left-click).

To Learn More

The Purchasing and Procurement Web site (www.energystar.gov/purchasing) helps you locate ENERGY STAR products by brand and model number, understand the differences between ENERGY STAR and non-ENERGY STAR products, and determine savings with ENERGY STAR. Additional savings would result from using ENERGY STAR food service products in cafeterias, enabling ENERGY STAR features on printers, scanners, and other office products, using Computer Power Management, and using ENERGY STAR heating and cooling equipment, water coolers, and compact fluorescent lights.

Case Study – Commonwealth of Massachusetts

States purchase large quantities of products each year whose use directly and indirectly affects expenditures for energy. The products directly affect energy expenses through their energy requirements (kWh), and indirectly through their heat output and contributions to building cooling loads.

The table below displays the direct annual and life cycle cost savings achieved by the Commonwealth of Massachusetts by purchasing ENERGY STAR qualified products rather than conventional ones. The figures assumed an electricity cost of \$0.10/kWh and were derived from records of purchases of fax machines, 19 different wattages of compact fluorescent lamps (CFLs), three sizes of LCD computer monitors, and copiers of three different speed capabilities.

The table reveals that Massachusetts saves over \$641,000 a year through their commitment to purchase and enable ENERGY STAR qualified products, and will save over \$2,336,000 over the lifetime of these products.

Products	Number of Products	Annual Energy Savings ¹	Life Cycle Cost Savings ¹
Fax machines	1,113	\$12,900	\$46,800
Computer monitors	20,977	\$349,200	\$1,267,500
Copiers	2,863	\$32,300	\$169,200
CFLs ²	45,262	\$247,200	\$853,000
Totals		\$641,600	\$2,336,500

(1) Figures obtained from calculators on the Purchasing & Procurement Web page; savings have been rounded to the nearest hundred for simplicity. Calculators may be downloaded (right-click) or used from the Web (left-click).

(2) Savings figures include contributions from both energy and maintenance.

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